

Name(s) of Risk Team Members: P. Cirnigliaro, A. Etkin, R. Karol, E. Lessard, J. Maraviglia, D. Passarello, A. Piper, R. Savage, J. Scott, M. Van Essendelft			Point Value → Parameter ↓		1		2		3		4		5					
Area/Facility Description Title: Collider-Accelerator  Area/Facility # (if applicable): Waste Yard FRA 22			Occupancy or Use		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift					
Area/Facility Description: Area-Wide Waste Yard			Severity		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability					
			Likelihood		Impossible		Unlikely		Possible		Probable		Multiple					
Approved by: <i>E. Lessard</i> Date: 7/20/04                      Rev.#: 1										Comments:								
Reason for Revision (if applicable):  FRA number added. Uniform hazard nomenclature added.																		
					Before Additional Controls								After Additional Controls					
Physical Item or Activity		Hazard(s)	Control(s)			Occupancy A	Severity B	Likelihood C	Risk* AxBxC	Control(s) Added to Reduce Risk				Occupancy A	Severity B	Likelihood C	Risk* AxBxC	% Risk Reduction
Receiving, sorting, handling and packaging wastes		Radiation	Posting, labeling, PPE, Tier 1 inspections, training, procedures, work planning, dosimeters, radiation surveys, RWP, RWMB, qualified personnel, locked and fenced area with limited access, use of certified containers and drums			3	1	3	9									
Receiving, sorting, handling and packaging wastes		Overexertion – injuries caused by excessive lifting, pushing, pulling, holding, carrying or throwing of an object	Training, procedures, work planning			3	3	3	27									
Receiving, sorting, handling and packaging wastes		Hazardous material exposures	Posting, labeling, PPE, Tier 1 inspections, training, procedures, work planning, MSDS, dosimeters, industrial hygiene surveys, qualified personnel, locked and fenced area with limited access, use of certified containers and drums			2	3	2	12									
Receiving, sorting handling and packaging wastes		Falls on the same level	Maintenance of area, work planning, snow removal			3	3	3	27									
Receiving, handling and packaging wastes		Being struck by an object such as a vehicle in motion	Training, work planning, spotters			2	4	3	24									
Sorting and packaging wastes – power tool usage		Being struck against a sharp surface	Work planning, use of safe tools, PPE			2	4	3	24									
Sorting and packaging wastes – electrical		Electrical shock	GFCI, UL listed tools, work planning, guards			2	2	2	8									

Sorting and packaging wastes – hydraulics	Being caught in or compressed by equipment	Work planning, guards	1	2	2	4					
Storage of wastes	Fire	Minimize combustibles, BNL Fire/Rescue Group, emergency procedures, EMTs	2	2	1	4					
Cutting waste drums	Being struck against a sharp surface	PPE, personal communication device, supervisor communication, work planning, maintenance of equipment	2	3	3	18					
Bulb crushing - electrical	Electric shock	GFCI, Tier 1 inspections, procedures, work planning, training, qualified personnel	2	2	2	8					
Bulb crushing	Being struck by an object such as flying debris	Guarding of moving parts, PPE, Tier 1 inspections, procedures, work planning, training	2	3	2	12					
Bulb crushing	Exposure to hazardous materials	HEPA/charcoal filters, posting, labeling, MSDS, PPE, Tier 1 inspections, procedures, work planning, training, industrial hygiene surveys, qualified personnel	2	2	2	8					
Further Description of Controls Added to Reduce Risk:											
*Risk:	0 to 20	21 to 40	41-60				61 to 80			81 or greater	
	Negligible	Acceptable	Moderate				Substantial			Intolerable	